

XX
PS Claim 3; Page 640; 837pp; English.
XX
CC 242265 to 243075 represent novel 5' expressed sequence tag (EST) sequences, corresponding to human secreted proteins Y64651 to Y65438
CC represent the EST-related proteins corresponding to Z42265 to Z41052.
CC The 5' ESTs can be used for producing secreted human gene products.
CC They can be used to identify and isolate 5' untranslated regions (UTRs)
CC and upstream regulatory regions which control the location, development
CC stage, rate, and quantity of protein synthesis, as well as stability of
CC mRNA. The ESTs are also useful as probes for chromosome mapping, and to
CC obtain full length cDNA clones. The ESTs can also be used in forensic
CC procedures to identify individuals, or in diagnostic procedures to
CC identify individuals having genetic diseases resulting from abnormal
CC gene expression. The products may also be used in gene therapy protocols.
CC The nucleic acids encoding signal peptides can be used for directing
CC extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell.
CC The proteins encoded by the EST sequences may be useful in treating a
CC variety of human conditions. Secreted proteins have therapeutic value,
CC and the identification of new secreted proteins is valuable. Z42249 to
CC 242264 and Y64644 to Y64650 represent sequences used in the
CC exemplification of the present invention.

XX
Sequence 66 AA;
SQ Sequence 625 AA;

Query	Match	Score	DB	Length
Qy 1	CXXCXXXCXXXXXXCXXCXXC	77	21	66
Db 27	cpxcymccvcwicvcvccmcvcisc	55		

RESULT 3
ID W62828 standard; Protein: 666 AA.
XX W62828:
AC W62828:
XX DT 27-OCT-1998 (first entry)
XX DE Macadamia integrifolia antimicrobial protein.
XX KW antimicrobial protein; infestation; control.
XX OS Macadamia integrifolia.
XX FH Key Peptide
FT Location/Qualifiers
FT FT 1..28
FT Protein /note= "signal peptide"
FT FT 29..666 /note= "mature protein"
XX PN W09827805-A1.
XX PD 02-JUL-1998.
XX PF 22-DEC-1997; 97WO-AU00874.
XX PR 20-DEC-1996; 96AU-0004275.
XX PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX PT Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX DR WPI; 1998-377279/32.
XX N-PSDB; V42310.
XX PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
XX useful for controlling microbial infestations of plants or mammals
XX PS Claim 1; Page 34-36; 96pp; English.
XX CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
XX SQ Sequence 666 AA;

Query	Match	Score	DB	Length
Qy 1	CXXCXXXCXXXXXXCXXCXXC	77	19	666
Db 82	cqgcqrqrqesprqqyqrckieic	110		

XX
PS Query Match
XX Best Local Similarity 20.7%; Pred. No. 2e+02;
Matches 6; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
XX Sequence 666 AA;

XX
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
XX
PS The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
XX
PS Sequence 625 AA;

Query	Match	Score	DB	Length
Qy 1	CXXCXXXCXXXXXXCXXCXXC	77	19	625
Db 41	cqqcqrrqrqesprqqyqrckieic	69		

RESULT 3
ID W62828 standard; Protein: 666 AA.
XX W62828:
AC W62828:
XX DT 27-OCT-1998 (first entry)
XX DE Macadamia integrifolia antimicrobial protein.
XX KW antimicrobial protein; infestation; control.
XX OS Macadamia integrifolia.
XX FH Key Peptide
FT Location/Qualifiers
FT FT 1..28
FT Protein /note= "signal peptide"
FT FT 29..666 /note= "mature protein"
XX PN W09827805-A1.
XX PD 02-JUL-1998.
XX PF 22-DEC-1997; 97WO-AU00874.
XX PR 20-DEC-1996; 96AU-0004275.
XX PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX PT Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX DR WPI; 1998-377279/32.
XX N-PSDB; V42310.
XX PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
XX useful for controlling microbial infestations of plants or mammals
XX PS Claim 1; Page 34-36; 96pp; English.
XX CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
XX SQ Sequence 666 AA;

Query	Match	Score	DB	Length
Qy 1	CXXCXXXCXXXXXXCXXCXXC	77	19	666
Db 82	cqgcqrqrqesprqqyqrckieic	110		

RESULT 4
 W62829 FT FH
 ID W62829 standard; Protein; 666 AA.
 XX AC /label= Unknown
 XX FT /note= "Xaa may be 9 amino acids in length; some
 XX FT amino acids may be absent"
 DE 27-OCT-1998 (first entry)
 Macadamia integrifolia antimicrobial protein.
 XX KW antimicrobial protein; infestation; control.
 XX OS Macadamia integrifolia.
 XX FH Key
 FT Peptide
 FT Location/Qualifiers
 FT 1..28
 FT /note= "signal peptide"
 FT 29..666 "mature protein"
 FT /note= "mature protein"
 PN W09827805-A1.
 XX PD 02-JUL-1998.
 XX PF 23-DEC-1997; 97WO-AU000874.
 XX PR 20-DEC-1996; 96AU-0004275.
 XX PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 XX Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 DR WPI: 1998-372729/32.
 DR N-FSDB: V42311.
 XX Novel anti-microbial protein from e.g. Macadamia integrifolia -
 PT useful for controlling microbial infestations of plants or mammals
 XX PS Claim 1; Page 39-41; 96pp; English.
 XX CC The sequence is that of an antimicrobial protein which can
 CC be used to control microbial infestations in plants and mammalian
 XX animals.
 SQ Sequence 666 AA;

Query Match 100.0%; Score 77; DB 19; Length 666;
 Best Local Similarity 20.7%; PRed. No. 2e+02;
 Matches 6; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

OY 1 CXXCXXXXCXXXXXXXXXXCXXXCCXX 29
 Db 82 cqgcqrrcqrgesprqqycqrckieic 110

RESULT 5
 Y70731 FT FH
 ID Y70731 standard; protein; 31 AA.
 XX AC /label= Unknown
 XX FT /note= "Xaa may be 42 amino acids in length; some
 XX FT amino acids may be absent"
 DE 24-JUL-2000 (first entry)
 Wnt antagonist protein consensus sequence-1.
 XX KW Wnt antagonist; contraceptive; contraceptive vaccine; oocyte development;
 XX female primate contraception; oocyte viability.
 XX OS Synthetic.

RESULT 5
 Y70731 FT FH
 ID Y70731 standard; protein; 31 AA.
 XX AC /label= Unknown
 XX FT /note= "Xaa may be 42 amino acids in length; some
 XX FT amino acids may be absent"
 DE 24-JUL-2000 (first entry)
 Wnt antagonist protein consensus sequence-1.
 XX KW Wnt antagonist; contraceptive; contraceptive vaccine; oocyte development;
 XX female primate contraception; oocyte viability.
 XX OS Synthetic.

DE Extended human secreted protein sequence, SEQ ID NO. 184.
 XX
 DE Secreted protein; human; cytokine; cellular proliferation; cell movement;
 KW cellular differentiation; immune system regulator; anti-inflammatory;
 KW haematopoiesis regulator; tissue growth regulator; tumour inhibitor;
 KW reproductive hormone regulator; chemotaxis; chemokinesis; gene therapy;
 KW genetic disease.
 XX Homo sapiens.
 OS
 XX WO9931236-A2.
 PN
 XX
 DE 24-JUN-1999.
 PF 17-DEC-1998; 98WO-1B02122.
 PR 10-AUG-1998; 98US-0096116.
 PR 17-DEC-1997; 97US-0069957.
 PR 09-FEB-1998; 98US-0074121.
 PR 13-APR-1998; 98US-0081563.
 PA (GEST) GENSET.
 XX Bougueret L, Ducleart A, Dumas Milne Edwards J;
 PT DR WPI; 1999-385906/32.
 XX N-PSDB; X97619.
 PT New isolated human secreted proteins
 XX
 PS Claim 9; Page 215-216; 516pp; English.
 XX This sequence is encoded by an extended human secreted protein coding
 CC sequence of the invention. The secreted proteins can be used in treating
 CC or controlling a variety of human conditions. The secreted proteins may
 CC act as cytokines or may affect cellular proliferation or differentiation
 CC or may act as immune system regulators. haematopoiesis regulators, tissue
 CC growth regulators, regulators of reproductive hormones or cell movement
 CC or have chemotactic/chemokinetic, receptor/ligand, anti-inflammatory or
 CC tumour inhibition activity. The DNAs can be used in forensic procedures
 CC to identify individuals or in diagnostic procedures to identify
 CC individuals having genetic diseases resulting from abnormal expression of
 CC the genes corresponding to the extended cDNAs. They are also useful for
 CC constructing a high resolution map of the human chromosomes. They can
 CC also be used for gene therapy to control or treat genetic diseases.
 SQ Sequence 73 AA:
 Query Match 88.3%; Score 68; DB 20; Length 73;
 Best Local Similarity 17.9%; Pred. No. 1e+02; Indels 0; Gaps 0;
 Matches 5; Conservative 23; Mismatches 0; Sequence 73 AA:
 RESULT 9
 YE8907
 ID Y88907 standard; Protein; 76 AA.
 QY 2 XXCXXXCXXXXXXCXXXCXXXC 29
 ::|::|::|::|::|::|::|::|::|:
 Db 42 dciihesscfqkeetnkkccscatcogic 69
 SQ Sequence 76 AA:
 Query Match 88.3%; Score 68; DB 21; Length 76;
 Best Local Similarity 17.9%; Pred. No. 1e+02; Indels 0; Gaps 0;
 Matches 5; Conservative 23; Mismatches 0; Sequence 76 AA:
 RESULT 10
 Y69209
 ID Y69209 standard; Protein; 92 AA.
 QY 2 XXCXXXCXXXXXXCXXXCXXXC 29
 ::|::|::|::|::|::|::|::|:
 Db 44 gicvqdqsgdgscpgnnkcosnchvc 71
 SQ Sequence 76 AA:
 Query Match 88.3%; Score 68; DB 20; Length 73;
 Best Local Similarity 17.9%; Pred. No. 1e+02; Indels 0; Gaps 0;
 Matches 5; Conservative 23; Mismatches 0; Sequence 73 AA:
 RESULT 9
 YE8907
 ID Y88907 standard; Protein; 76 AA.
 QY 2 XXCXXXCXXXXXXCXXXCXXXC 29
 ::|::|::|::|::|::|::|::|:
 Db 42 dciihesscfqkeetnkkccscatcogic 69
 SQ Sequence 73 AA:
 Query Match 88.3%; Score 68; DB 20; Length 73;
 Best Local Similarity 17.9%; Pred. No. 1e+02; Indels 0; Gaps 0;
 Matches 5; Conservative 23; Mismatches 0; Sequence 73 AA:
 RESULT 10
 Y69209
 ID Y69209 standard; Protein; 92 AA.
 QY 2 XXCXXXCXXXXXXCXXXCXXXC 29
 ::|::|::|::|::|::|::|::|:
 Db 44 gicvqdqsgdgscpgnnkcosnchvc 71
 SQ Sequence 76 AA:
 DE Amino acid sequence of honey bee venom Px3.101 protein.
 XX
 DE Protein Px3.101; honey bee; venom; interleukin-8; IL-8; receptor;
 KW CXCR1; CXCR2; cyclooxygenase; lipoxygenase; phospholipase; Protease;
 KW inflammatory disease; gene therapy; cancer; autoimmune disease; pain;
 KW chemokine imbalance; rheumatoid arthritis; multiple sclerosis;
 KW psoriasis; systemic lupus erythematosus; Crohn's disease; vasculitis;
 KW scleroderma; metastatic cancer; Alzheimer's disease; wound healing;
 KW aging process; antigen.
 XX

OS Apis mellifera.

KW diagnostic; gene therapy; chromosome mapping; secretion vector.

XX OS Homo sapiens.

XX Homo sapiens.

FH XX WO9925825-A2.

XX PN

FT XX PD 27-MAY-1999.

XX PR

FPT XX 13-NOV-1998; 98WO-1B01862.

XX PR

FT XX 04-SEP-1998; 98US-0099273.

XX PR

FT XX 13-NOV-1997; 97US-0066677.

XX PR

FT XX 17-DEC-1997; 97US-0069937.

XX PR

FT XX 09-FEB-1998; 98US-0074121.

XX PR

FT XX 13-APR-1998; 98US-008163.

XX PR

FT XX 10-AUG-1998; 98US-0096116.

XX PR

FT XX (GEST⁺) GENSET.

XX PR

FT XX Bougueret L, Duclert A, Dumas Milne Edwards J;

XX DR

FT XX N-PSDB; X97848.

XX PT

PT XX Extended cDNAs encoding secreted proteins

XX PS

PS Claim 2; FIG 3A-B; 83pp; English.

XX PS

XX The present sequence represents the protein px3.101, which is a honey bee venom isolated Apis mellifera. Px3.101 inhibits the binding of interleukin-8 (IL-8) to its receptor (e.g. CXCR1 and CXCR2) and inhibits a variety of enzymes (e.g. cyclooxygenases, lipoxygenases, phospholipases and proteases) associated with inflammatory diseases. The nucleic acids may be used for the recombinant production of px3.101 proteins either in vivo (as part of a gene therapy protocol) or in vitro (as a fermentation culture). The nucleic acids may also be used as probes to identify similar sequences in samples. The px3.101 protein may be used for the treatment of inflammatory diseases, cancers, (especially IL-8) imbalances such as rheumatoid arthritis, multiple sclerosis, psoriasis, systemic lupus erythematosus (SLE), Crohn's disease in humans. It is also disclosed that the proteins may be used to accelerate wound healing, reduce several aging processes and protect against ultraviolet light. The proteins may also be used as antigens in the production of antibodies specific for px3.101. The antibodies may be used as diagnostic agents to detect px3.101 protein in samples and to down regulate px3.101 activity.

SQ Sequence 92 AA;

Query Match 88.3%; Score 68; DB 21; Length 92;
Best Local Similarity 17.9%; Pred. No. 1.3e+02;
Matches 5; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
QY 2 XXCXXXCXXXXXXCXXCXXC 29
Db 43 encthltcmqdecgkfqcscfcgivc 70
RBSUQT 12
Y36211 ID Y36211 standard; protein; 93 AA.
XX AC Y36211;
XX DT 23-SEP-1999 (first entry)
XX DE Human secreted protein #83.
XX KW Secreted protein; human; cytostatic; thrombotic; osteopathic; forensic; diagnostic; gene therapy; chromosome mapping; secretion vector.
XX OS Homo sapiens.
XX PN WO9925825-A2.
XX DD 27-MAY-1999.
XX PR 13-NOV-1998; 98WO-1B01862.
XX PR 04-SEP-1998; 98US-0099273.
PR 13-NOV-1997; 97US-0066677.
PR 17-DEC-1997; 97US-0096116.

RESULT 11
Y36164 ID Y36164 standard; protein; 93 AA.
XX AC Y36164;
XX DT 23-SEP-1999 (first entry)
XX DE Human secreted protein #83.
XX KW Secreted protein; human; cytostatic; thrombotic; osteopathic; forensic;
Secreted protein; human; cytostatic; thrombotic; osteopathic; forensic;

PR	09-FEB-1998;	98US-0074121.	XX	This represents the plant nucleolus specific protein NUC1. The NUC1 and
PR	13-ARR-1998;	98US 0081563.	CC	endosperm specific ENDL genes can be used to produce antibodies or probes
PR	10-AUG-1998;	98US-00966116.	CC	useful for screening other species for ENDL, NUC1 or developmentally
PA	(GFST) GENSET.		CC	specific genes. Host cells, into which a vector containing one of the
XX	Bouquerel L, Ducleart A, Dumas Milne Edwards J;		CC	ENDL or NUC1 promoters and a foreign gene in expressible form have been
XX	WPT; 1999-347472/29.		CC	introduced, can be grown to express the foreign gene. Plants expressing a
DR	N-PSDB; X97895.		CC	foreign gene can also be produced, by introducing a vector containing the
PT	Extended cDNAs encoding secreted proteins		CC	ENDL, NUC1 genes or promoters, into embryogenic plant cells and producing
XX	PS	Claim 7, Page 303; 307pp; English.	CC	a plant from the cells. In both cases, the cells are preferably
XX	y16129-y36222 represent novel human secreted proteins encoded by the		CC	transfected by Agrobacterium co-cultivation or bombardment, and the
CC	extended cDNA sequences represented in X97813-X97906. The proteins		CC	foreign genes may be other proteins, antisense sequences or ribothe
CC	of the invention have cytostatic, thrombotic and osteoplastic activity.		CC	sequences. Since the foreign genes are under the control of the ENDL or
CC	The extended cDNAs can be used to express secreted proteins or parts of		CC	NUC1 promoters, and ENDL is expressed in cells at the gateway to the
CC	them or to obtain antibodies capable of binding to the secreted proteins.		CC	endosperm or NUC1 in the nucleoli, the promoters may be used to alter
CC	They may also be used in diagnostic, forensic, gene therapy and		CC	the flux of various storage proteins or engineer disease resistance. For
CC	chromosome mapping procedures. Uses also include design of expression		CC	example, expression of storage polysaccharides prior to starch deposition
CC	vectors and secretion vectors.		CC	may be manipulated to occur earlier in development than normal, or
XX	SQ	Sequence 93 AA;	CC	disease resistance may be engendered by driving expression of enzymes
XX	Query Match 88.3%; Score 68; DB 20; Length 93;		CC	that degrade pathogen-produced molecules or suppress pathogen growth.
Best Local Similarity 17.9%; Pred. No. 1.3e+02; Matches 5; Conservative 23; Mismatches 0; Indels 0; Gaps 0;			SQ	Sequence 124 AA;
OY	2 XXXXXXXXXXXXXXXXXXXXXXXXXC 29		Query Match 88.3%; Score 68; DB 19; Length 124;	
Db	43 enothlctmgedekgqccssfcgivc 70		Best Local Similarity 17.9%; Pred. No. 1.7e+02; Matches 5; Conservative 23; Mismatches 0; Indels 0; Gaps 0;	
RESULT 13			OY	2 XXCXVXCCCCXXXXXXCXXCXXC 29
ID W56732	W56732 standard; Protein; 124 AA.		Db	43 ceciqrcypacdfrppwickikcgsc 70
XX			RESULT 14	
AC W56732;			ID R13329	
XX			AC R13329;	
DT 29-JUL-1998 (first entry)			ID R13329 standard; Protein; 125 AA.	
DE Nuclellus specific NUC1 protein (ORF 1).			XX	
XX			XX	
KW Endosperm; nuclellus; ENDL; NUC1; promoter; foreign gene; pathogen;			XX	
KW grain disease resistance.			XX	
XX Hordeum vulgare.			XX	
OS WO9808961-A2.			XX	
PN WO9808961-A2.			XX	
PB 05-MAR-1998.			XX	
XX			XX	
PF 28-AUG-1997; 97WO-TB01037.			XX	
XX			XX	
PR 30-AUG-1996; 96US-0024886.			XX	
XX			XX	
PA (DOAN /) DOAN D. N.			XX	
PA (LINN /) LINNESTAD C.			XX	
PA (OLSE /) OLSEN O.			XX	
PA (OLSE /) OLSEN O.			XX	
PT Doan DN, Linnestad C, Olsen O;			XX	
PT DR WPT; 1998-193229/17.			XX	
PT N-PSDB; V28500.			XX	
PT Plant endosperm specific genes ENDL and NUC1 and their promoters -			XX	
PT expressed in endosperm and nuclellus, useful e.g. for foreign gene -			XX	
PT expression to improve grain disease resistance or composition			XX	
Example 1; Page 25; 35pp; English.			XX	

DNA sequences have been identified by constructing a cDNA library from human epididymis RNA, screening with epididymis and testis probes and further screening with brain and liver probes. The DNA mol. is useful in the cloning and expression of human epididymis specific polypeptides in pro- or eukaryotic host cells. The polypeptides and antibodies to the peptides are useful for diagnosis or therapy of male infertility and for immunosterilisation of mammals.

Query Match Similarity 88.3%; Score 68; DB 12; Length 125;
 best Local Pred. No. 1.7e+02; Matches 5; Conservative 23; Mismatches 0; Indels 0; Gaps 0

Qy	2	xxcxxxxxXXXXXXXXXXXXXXcxxxccc	29
	:	: : : : :	
Db	43	qncqecvstdsecadnlkccsagcatfc	70

RESULT 15
W81779
TO W81770 standard. Protein: 135 mg

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RESULT 15
WB1779 ID WB1779 standard; Protein; 125 AA.
XX AC WB1779;
AC XX
DR 23-FPR-1999 / first entry

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XX
HE4: epididymis-specific; diagnosis; male infertility; treatment;
KW
storch; immunostaining

Homo sapiens.

FT	key	Location/Qualitries
FT	Peptide	1..30
FT	Protein	/label= signal
FT		31..125
	/label= HE4	

PN EP878544-A1.
XX
PD 18-NOV-1998.

XX
PF
XX 29-JAN-1991; 91EP-0250021.

PR
XX
PA (IHFH-) IHF INST HORMON & FORTPFLANZUNGSS.
01-FEB-1990; 90BE-4002981.

WPI: 1998-585748/50.

XX PT DNA encoding human epididymis polypeptides - useful for, e.g.,
diagnosis of male infertility

AA
PS
VV Disclosure; Page 16-17; 29pp; German.

This sequence represents a novel human epididymis-specific protein, HE4. This sequence may be used for cloning and for expression of human epididymis-specific polypeptides in prokaryotic or eukaryotic host